

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_10				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0010_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2018.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	0.06	Rating **	A/W	Issue No.	20
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.114203 °	39.114842 °
				-121.768015 °	-121.767382 °
DWR ID	DWR_ST0010_01_f _2016_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2018_ST0010_42_20_20180905_00013.jpg



View of the erosion along the waterside toe.

LM Start	0.38	Rating **	A/W	Issue No.	19
LM End	0.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.117910 °	39.117910 °
				-121.764497 °	-121.764497 °
DWR ID	DWR_ST0010_01_f _2016_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2018_ST0010_42_19_20180905_00012.jpg



View of the erosion along the waterside toe.

LM Start	0.50	Rating **	U	Issue No.	22
LM End	0.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119348 °	39.119348 °
				-121.763120 °	-121.763120 °
DWR ID	DWR_ST0010_01_f_2017_22				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the beaver hole along the waterside berm.					

Photo 1 of 1 : FA_2018_ST0010_42_22_20180905_00014.jpg



View of the beaver hole along the waterside berm.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	0.56	Rating **	M	Issue No.	18
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.119985°	39.119985°
				-121.762600°	-121.762600°
DWR ID	DWR_ST0010_01_s_2017_18				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the water side toe.					

Photo 1 of 1 : FA_2018_ST0010_42_18_20180905_00011.jpg



View of the erosion along the waterside toe caused by a tree that fell into the water.

LM Start	1.75	Rating **	M	Issue No.	7
LM End	2.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.133887 °	39.141757 °
				-121.749526 °	-121.742939 °
DWR ID	DWR_ST0010_01_f_2018_7				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.1 L					
Status: Eroding					
2017 Field Notes: Minor new erosion observed.					
Site History: 2011 - Whole bank is starting to unravel, with failure from poor soils.					

No Photos

LM Start	1.76	Rating **	C	Issue No.	23
LM End	1.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.133978 °	39.133978 °
				-121.749327 °	-121.749327 °
DWR ID	DWR_ST0010_01_f_2017_23				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes were repaired along the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.85	Rating **	U	Issue No.	107
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.135110°	39.135110°
				-121.748230°	-121.748230°
DWR ID	DWR_ST0010_01_f_2013_107				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion under the abandoned pump.					

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2018_ST0010_42_107_20180905_00017.jpg



View of the erosion along both sides of the abandoned pump.

Photo 2 of 3 : FA_2018_ST0010_42_107_20180905_00018.jpg



View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2018_ST0010_42_107_20180905_00019.jpg



View of erosion along both sides of the abandoned pipe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.85	Rating **	M	Issue No.	106
LM End	1.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.135110 °	39.135110 °
				-121.748229 °	-121.748229 °
DWR ID	DWR_ST0010_01_f_2013_106				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2018_ST0010_42_106_20180905_00016.jpg



View of the rodent holes under the irrigation pipe.

LM Start	2.43	Rating **	M	Issue No.	6
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.142235 °	39.153095 °
				-121.742609 °	-121.734390 °
DWR ID	DWR_ST0010_01_f_2018_6				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 L					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 4 : FA_2018_ST0010_42_6_20180905_00006.jpg



View of the erosion along the waterside toe.

LM Start	2.43	Rating **	M	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : FA_2018_ST0010_42_6_20180905_00007.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

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Sutter Maintenance Yard Wadsworth Canal

View of the erosion along the waterside toe.

View of the repaired erosion along the waterside channel.

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Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.32	Rating **	M	Issue No.	25
LM End	4.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.153296 °	39.170973 °
				-121.734304 °	-121.726852 °
DWR ID	DWR_ST0010_01_f_2018_25				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.4 L					
Status: Eroding New					
2017 Field Notes: Significant lower bank erosion and overall slumping.					
Site History:					

No Photos

LM Start	3.53	Rating **	A/W	Issue No.	3
LM End	3.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.156225 °	39.156639 °
				-121.732930 °	-121.732755 °
DWR ID	DWR_ST0010_01_s _ 2012_3				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 1 : FA_2018_ST0010_42_3_20180905_00001.jpg



View of the erosion along the waterside toe.

LM Start	3.65	Rating **	A/W	Issue No.	4
LM End	3.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.157861 °	39.157861 °
				-121.732238 °	-121.732238 °
DWR ID	DWR_ST0010_01_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

Photo 1 of 2 : FA_2018_ST0010_42_4_20180905_00002.jpg



View of the erosion along the waterside toe of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

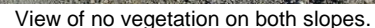
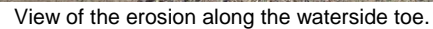
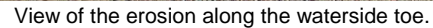
**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
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+ Issue Type

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Sutter Maintenance Yard Wadsworth Canal



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	11/06/2018 11/06/2018	Bob Duffey

LM Start	4.23	Rating **	A/W	Issue No.	5
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.165845 °	39.165845 °
				-121.728877 °	-121.728877 °
DWR ID	DWR_ST0010_01_s_2012_5				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion along the waterside toe.					

LM Start	4.23	Rating **	A/W	Issue No.	5 (cont)
LM End	4.23	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2018_ST0010_42_5_20180905_00004.jpg



View of the erosion along the waterside toe.

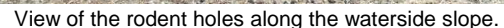
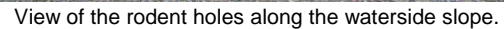
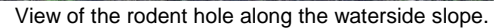
Photo 2 of 2 : FA_2018_ST0010_42_5_20180905_00005.jpg



View of the erosion along the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Sutter Maintenance Yard Wadsworth Canal



Sutter Maintenance Yard Wadsworth Canal

No Photos

View of the ramp encroaching into the levee.

View of the rodent holes above the irrigation pipe.

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Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	1.76	Rating **	M	Issue No.	11 (cont)	
LM End	1.76	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			39.134490 °	39.134490 °	
				-121.749716 °	-121.749716 °	
DWR ID	DWR_ST0010_02_f_2012_11					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Repair the rodent hole.						

Photo 2 of 2 : FA_2018_ST0010_43_11_20180905_00012.jpg



View of the rodent hole above the irrigation pipe.

LM Start	2.41	Rating **	M	Issue No.	8
LM End	3.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.142254 °	39.153150 °
				-121.742847 °	-121.734611 °
DWR ID	DWR_ST0010_02_f_2018_8				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 2.4 R					
Status: Eroding					
2017 Field Notes: Significant new erosion along lower bank.					
Site History: 2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem.					

Photo 1 of 2 : FA_2018_ST0010_43_8_20180905_00007.jpg



View of erosion along the waterside toe.

LM Start	2.41	Rating **	M	Issue No.	8 (cont)
LM End	3.28	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_ST0010_43_8_20180905_00008.jpg



View of the erosion along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

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Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	2.95	Rating **	M	Issue No.	21
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.148938 °	39.148938 °
				-121.737620 °	-121.737620 °
DWR ID	DWR_ST0010_02_f _ 2016_21				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ramp is causing depression in the levee slope.					

Photo 1 of 1 : FA_2018_ST0010_43_21_20180905_00015.jpg



View of the ramp encroaching into the levee.

LM Start	3.24	Rating **	A	Issue No.	18
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.152560 °	39.153087 °
				-121.735032 °	-121.734822 °
DWR ID	DWR_ST0010_02_f _ 2018_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion along the waterside channel was repaired.					

Photo 1 of 1 : FA_2018_ST0010_43_18_20181106_00036.jpg



View of the repaired erosion along the waterside channel.

LM Start	3.30	Rating **	M	Issue No.	9
LM End	4.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.153320 °	39.171031 °
				-121.734573 °	-121.727040 °
DWR ID	DWR_ST0010_02_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: WAC 4.3 R					
Status: Eroding					
2017 Field Notes: Site extended downstream. Significant lower bank erosion.					
Site History: 2011 - Small erosion pocket.					

Photo 1 of 2 : FA_2018_ST0010_43_9_20180905_00009.jpg



View of the erosion along the waterside toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	3.30	Rating **	M	Issue No.	9 (cont)	
LM End	4.58	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 USACE Erosion Survey, DRAFT			39.153320 °		39.171031 °
				-121.734573 °		-121.727040 °
DWR ID	DWR_ST0010_02_f_2018_9					
Comment Code						
Inspector Comment						
2017 Site ID: WAC 4.3 R						
Status: Eroding						
2017 Field Notes: Site extended downstream. Significant lower bank erosion.						
Site History: 2011 - Small erosion pocket.						

Photo 2 of 2 : FA_2018_ST0010_43_9_20180905_00010.jpg



View of the erosion along the waterside toe.

LM Start	3.42	Rating **	A	Issue No.	4
LM End	3.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.155057°	39.155590°
				-121.733985°	-121.733733°
DWR ID	DWR_ST0010_02_s_2012_4				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
The erosion along the waterside channel was repaired by Sutter Maintenance Yard.					

Photo 1 of 2 : FA_2018_ST0010_43_4_20181106_00037.jpg



View of the repaired erosion along the waterside channel.

LM Start	3.42	Rating **	A	Issue No.	4 (cont)
LM End	3.46	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2018_ST0010_43_4_20180905_00002.jpg



View of the erosion at the waterside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sutter Maintenance Yard Wadsworth Canal

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Sutter Maintenance Yard Wadsworth Canal

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	11/06/2018 11/06/2018	Bob Duffey

LM Start	4.41	Rating **	A	Issue No.	7 (cont)	
LM End	4.51	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			39.168652 °		39.170110 °
				-121.728202 °		-121.727608 °
DWR ID	DWR_ST0010_02_s_2012_7					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
The erosion along the waterside channel was repaired by Sutter Maintenance Yard.						

Photo 2 of 2 : FA_2018_ST0010_43_7_20180905_00005.jpg



View of the erosion along the WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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